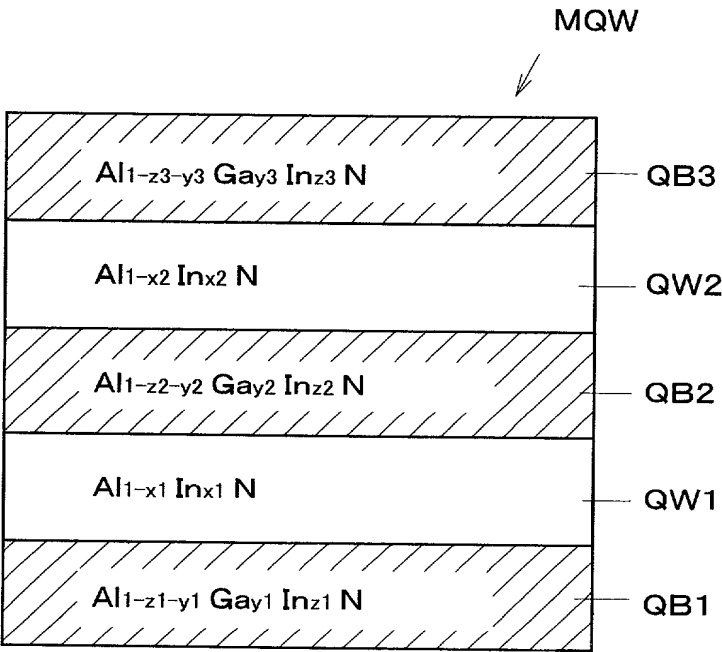


FIG. 1



QUANTUM WELL LAYER

$$QW_n: 0 < x_n \leq 1 \quad \cdots n=1, 2$$

QUANTUM BARRIER LAYER

$$QB_m \left\{ \begin{array}{l} 0 \leq y_m \leq 1 \\ 0 \leq z_m < 1 \\ 0 \leq z_m + y_m \leq 1 \end{array} \right\} \quad m=1, 2, 3$$

FIG. 2

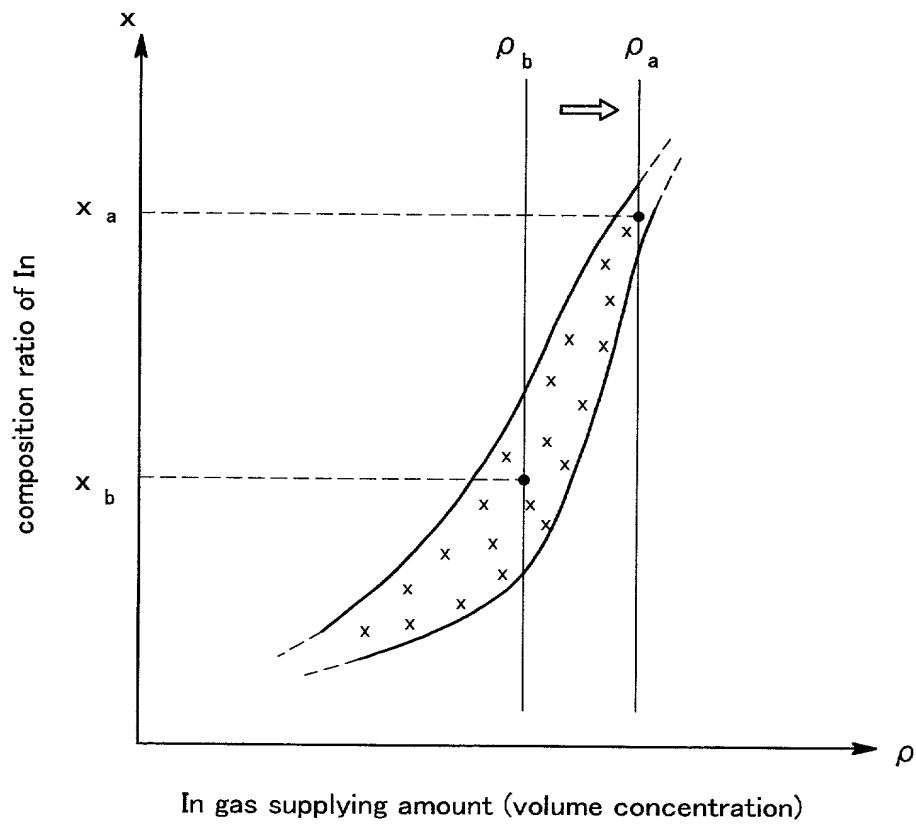
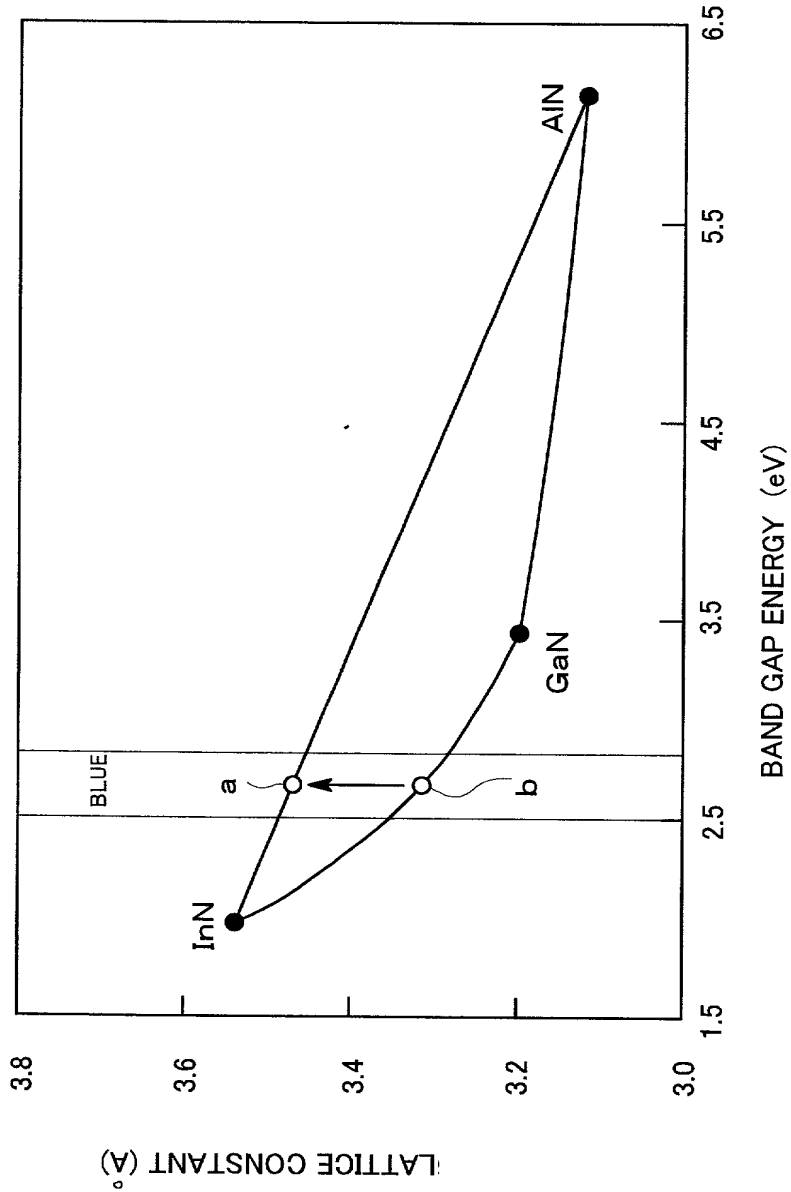


FIG. 3



Point A: $\text{Al}_{1-x}\text{In}_x\text{N}$ ($x_a \approx 0.40$)

Point B: $\text{Ga}_{1-x}\text{In}_x\text{N}$ ($x_b \approx 0.15$)

FIG. 4

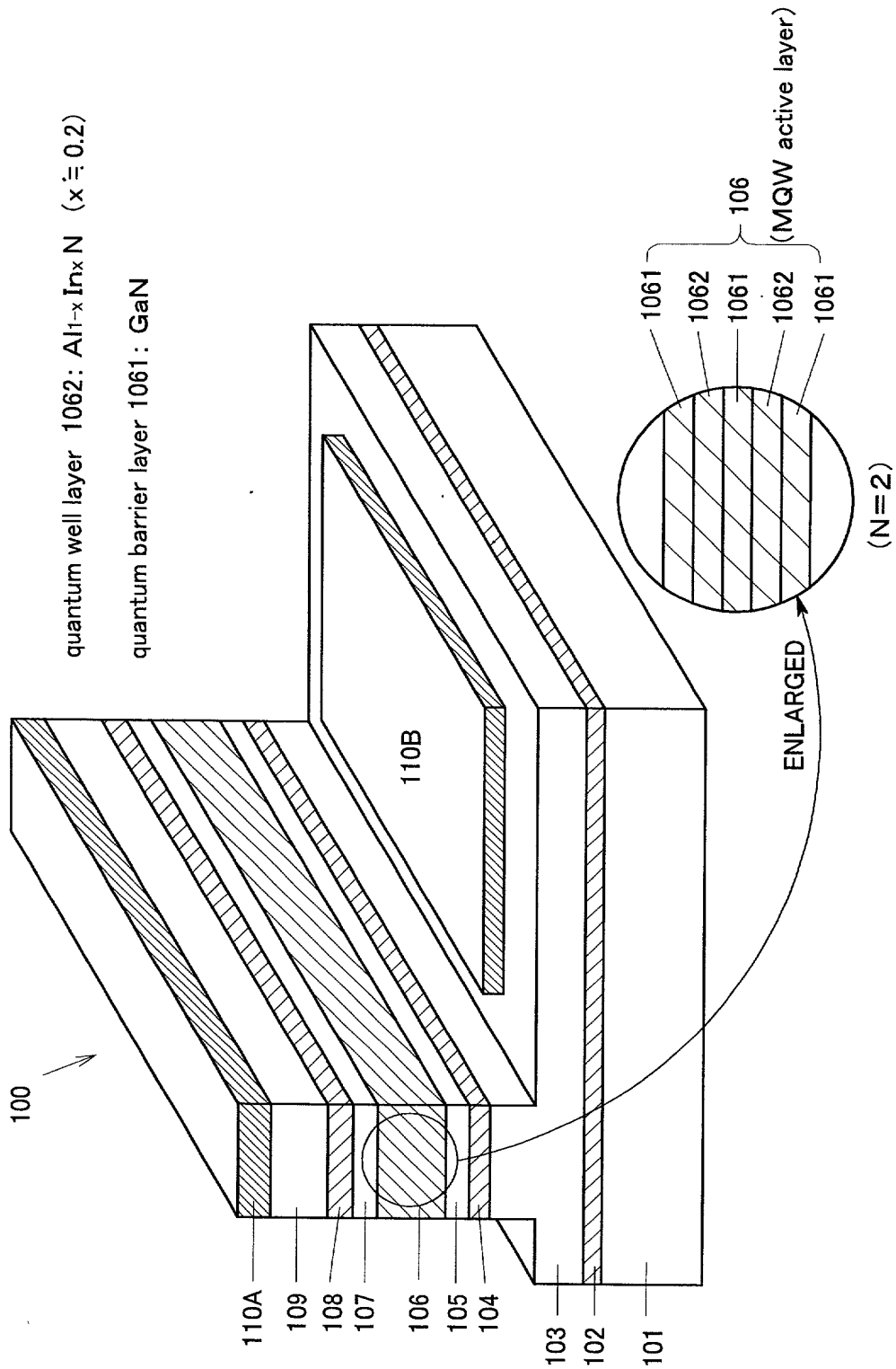


FIG. 5A

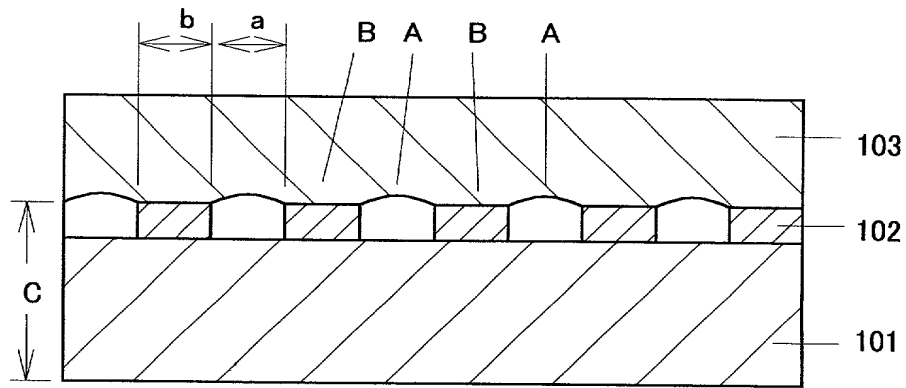


FIG. 5B

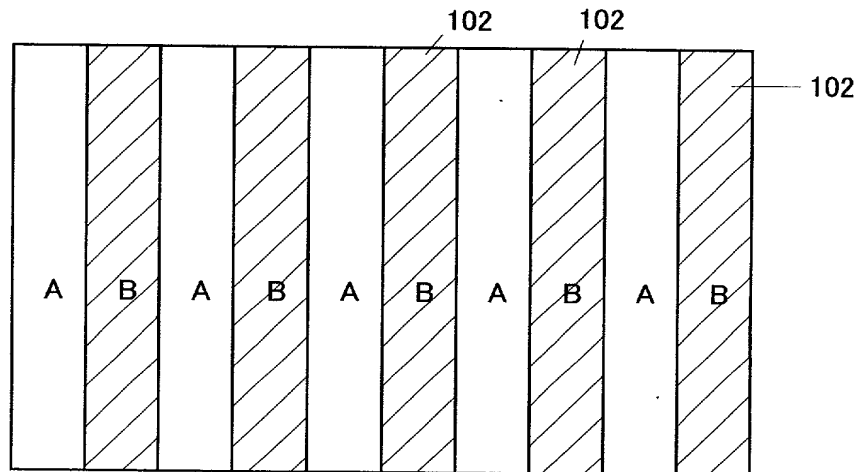
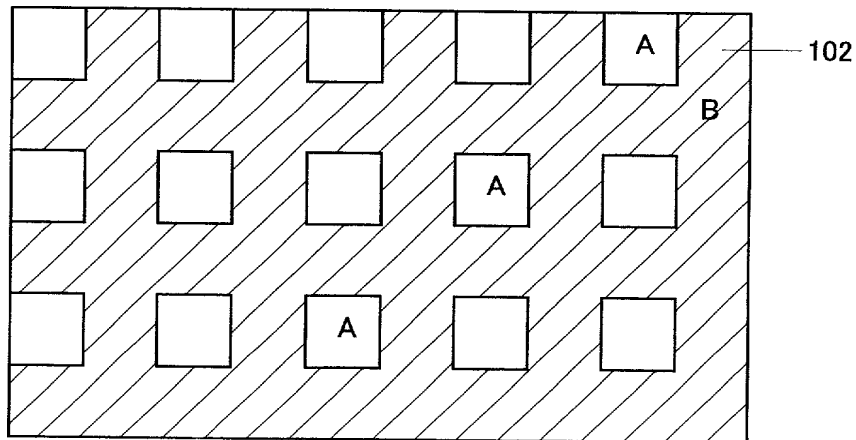


FIG. 5C



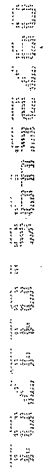


FIG. 7

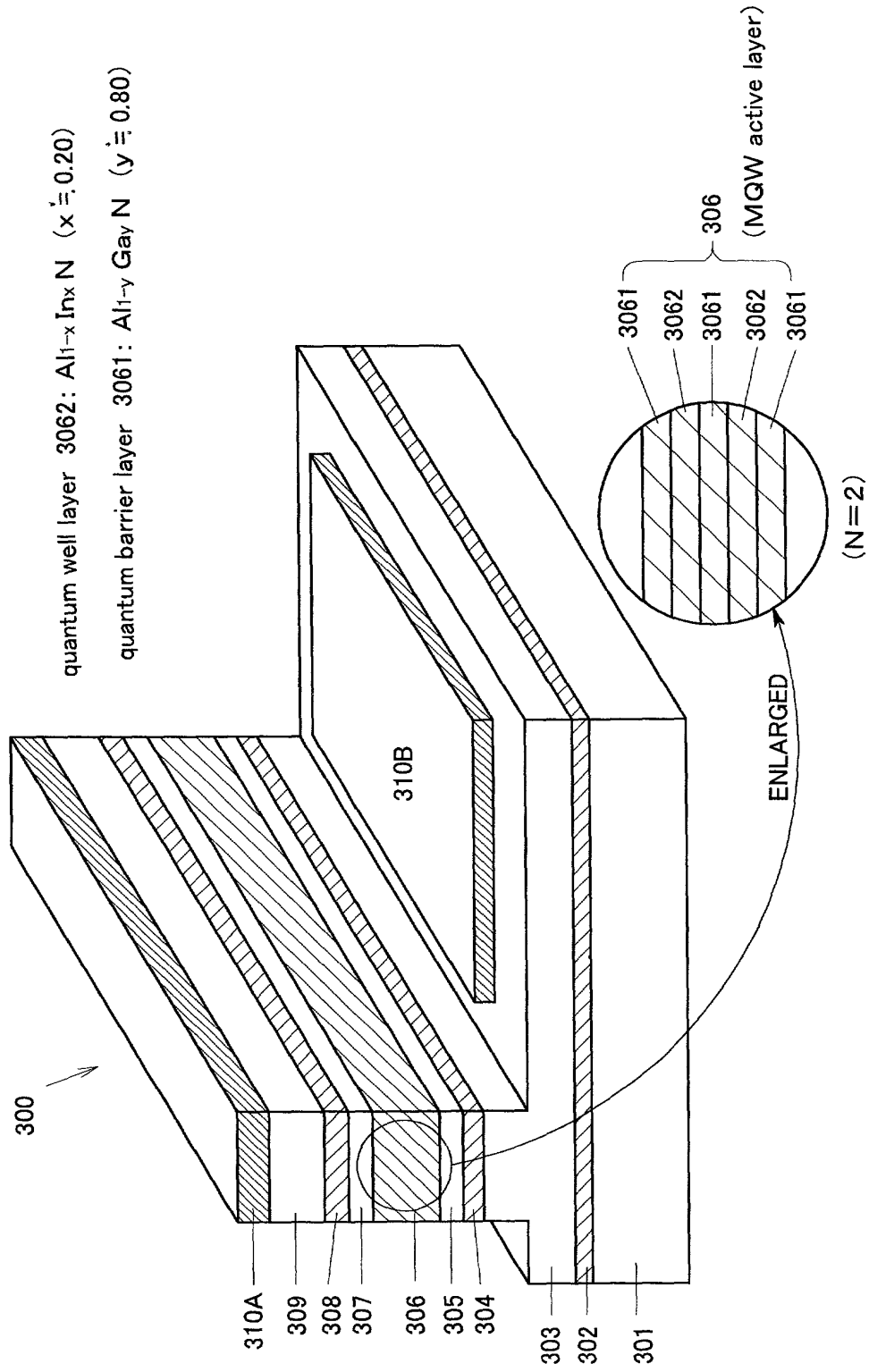


FIG. 8

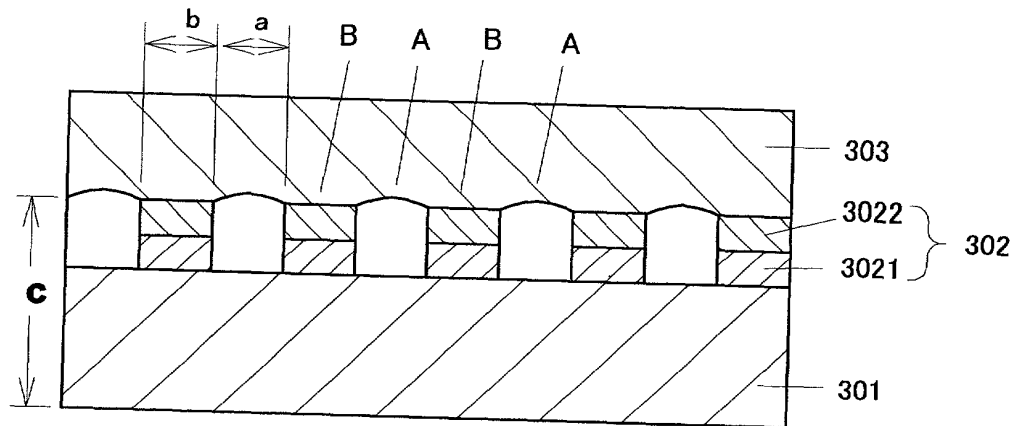


FIG. 9

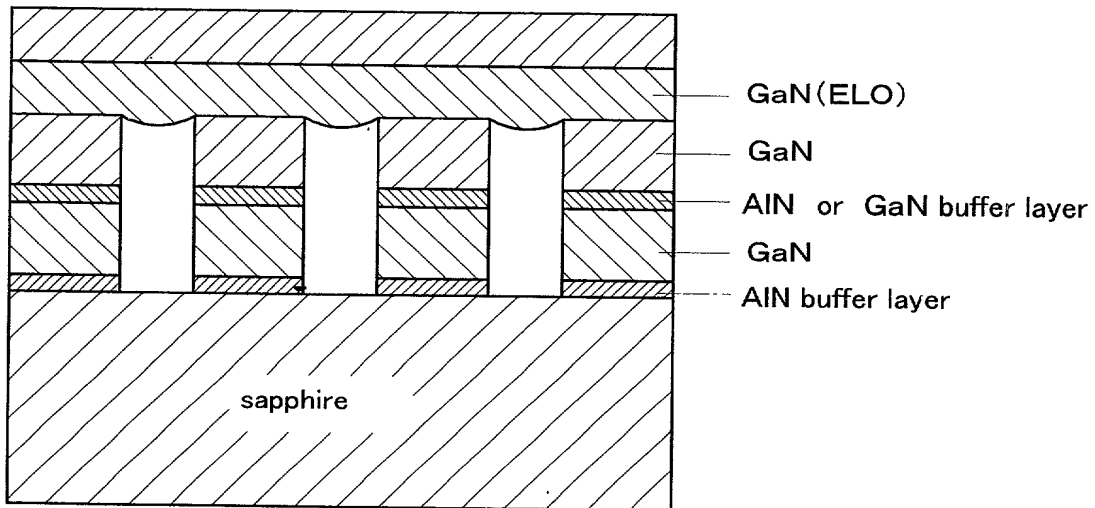
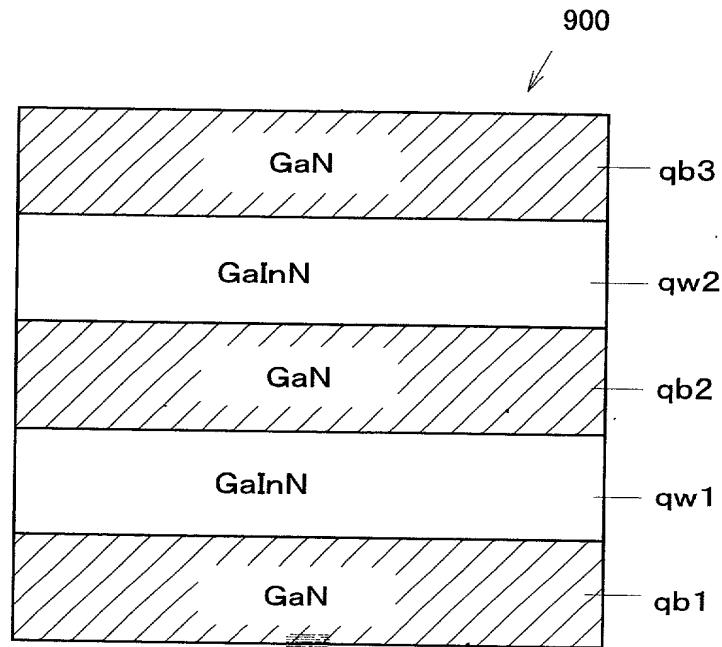


FIG. 10
(PRIOR ART)



qwn: quantum well layer ($n=1, 2$)

qbm: quantum barrier layer ($m=1, 2, 3$)